28 August 2007

Some things to think about, possibly during recitation session Weds:

1) If A is a diagonal ($n \times n$ square) matrix, what is A^n?

2) Suppose A is an $m \times n$ matrix with $m \neq n$. Suppose that A has a left inverse B. Why is B NOT a right inverse of A?

3) Consider the $m \times n$ matrix $I_{m \times n}$ with 1's on the diagonal (a_{ii} entries) and 0's otherwise. What can you say about

$$A \cdot I_{m \times n}$$

and

$$I_{m \times n} \cdot B \quad ?$$

[redacted]